RESPONSE UNDER 37 C.F.R. § 1.116

U.S. Application No.: 10/595,614

Attorney Docket No.: 029567-00008

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Canceled).

2. (Currently Amended) An electron spectroscopy analysis method for executing

a desired analysis with respect to a depth direction of a sample to be analyzed by

irradiating a high-energy particle to said sample to be analyzed under a vacuum

atmosphere, and detecting a number and a kinetic energy of electrons emitted from said

sample to be analyzed on the basis of a photoelectric effect, wherein the method

comprises steps of ionizing a fullerene, irradiating the fullerene ionized at the

accelerating voltage of from 2 kV to 10kV to the surface of said sample to be analyzed

before irradiating the high-energy particle to said sample to be analyzed, and etching

the surface of said sample to be analyzed.

3. (Previously Presented) The electron spectroscopy analysis method according

to claim 2, wherein a fullerene having an atomicity of 100 or less is used as said

fullerene.

4. (Original) The electron spectroscopy analysis method according to claim 3,

wherein C60, C70 or C84 is used as said fullerene having an atomicity of 100 or less.

TECH/793247.1

2

RESPONSE UNDER 37 C.F.R. § 1.116

U.S. Application No.: 10/595,614

Attorney Docket No.: 029567-00008

5. (Original) The electron spectroscopy analysis method according to claim 3,

wherein an endohedral fullerene in C60, C70 or C84 is used as said fullerene having an

atomicity 100 or less.

6. (Canceled).

7. (Currently Amended) An electron spectroscopy analytical apparatus for

executing a desired analysis with respect to a depth direction of a sample to be

analyzed by irradiating a high-energy particle to said sample to be analyzed from a

high-energy particle irradiating unit under a vacuum atmosphere, and detecting a

number and a kinetic energy of electrons emitted from said sample to be analyzed by

an analyzer on the basis of a photoelectric effect, wherein the apparatus comprises an

ion gun ionizing a fullerene and irradiating the fullerene ionized at the accelerating

voltage of from 2 kV to 10kV, and the apparatus ionizes the fullerene and irradiates the

fullerene ionized from said ion gun to the surface of said sample to be analyzed before

irradiating the high-energy particle to said sample to be analyzed, and etches the

surface of said sample to be analyzed.

8. (Previously Presented) The electron spectroscopy analytical apparatus

according to claim 7, wherein a fullerene having an atomicity of 100 or less is used as

said fullerene.

TECH/793247.1

3

RESPONSE UNDER 37 C.F.R. § 1.116

U.S. Application No.: 10/595,614

Attorney Docket No.: 029567-00008

9. (Original) The electron spectroscopy analytical apparatus according to claim 8, wherein C60, C70 or C84 is used as said fullerene having an atomicity of 100 or less.

10. (Original) The electron spectroscopy analytical apparatus according to claim 8, wherein an endohedral fullerene in C60, C70 or C84 is used as said fullerene having an atomicity of 100 or less.

11. (Previously Presented) The electron spectroscopy analytical apparatus according to claim 7, wherein there is a fullerene supply device operably connected to the ion gun.

TECH/793247.1